510(k) Summary: Computed Radiography System with NX1.0 Workstation

Common/Classification Name: Computed Radiography, 21 CFR 892.1650

Agfa Corporation
10 South Academy Street
Greenville, SC 29602-9048

Contact: Jeffery A. Jedlicka, Prepared: December 20, 2005

A. LEGALLY MARKETED PREDICATE DEVICES

This is a Special 510(k) for a device modification. The modified device is Agfa's Computed Radiography system with NX1.0 workstation.

The predicate device is Agfa's Computed Radiography System with QS 3.0 workstation which was introduced under a letter to file in March 2004. It's predecessor was the ADC QS/ID workstation was cleared by FDA on March 28,2001 (K010571).

B. DEVICE DESCRIPTION

The predicate and newly modified devices are computed radiography imaging systems. Instead of traditional screens and photographic film for producing the diagnostic image, these systems system utilize an "imaging plate," a plate coated with photo-stimulable storage phosphors that are sensitive to X-rays and capable of retaining a latent image. After exposure, this imaging plate is inserted into a digitizer that scans it with a laser and releases the latent image in the form of light that is converted into a digital image file. The image can then be previewed on a computer workstation, adjusted if necessary then stored locally, sent to an archive, printed or sent to a softcopy capable display such as a PACS system.

The NX1.0 and QS 3.0 (predicate) workstations are similar. The NX1.0 workstation includes a number of improvements including:

- A more intuitive user interface,
- Enhanced image processing,
- Easier installation and updates,
- Enhanced image manipulation, display and export capabilities,

The basic principles of operation are unchanged.

C. INTENDED USE

Agfa's Computed Radiography Systems with NX1.0 workstations are intended for use in the identification, generation, acquisition, processing and filing of computed radiography images in order to make them ready for interpretation by the physician.

D. SUBSTANTIAL EQUIVALENCE SUMMARY

Agfa's Computed Radiography Systems with NX1.0 workstations have the same indications for use as the legally marketed predicate devices, so the first decision point in the 510(k) Decision Algorithm is straight-forward. They have the same technological characteristics as the predicate device. This premarket notification has described the characteristics of the devices in sufficient detail to assure substantial equivalence. For the few characteristics that may not be precise enough to ensure equivalence, performance data was collected, and this data demonstrates substantial equivalence. In keeping with the format of a Special 510(k) for Device Modification, performance data were not included in the submission, but the declarations in Exhibits I and H provide certification that the data demonstrate equivalence.

E. TECHNOLOGICAL CHARACTERISTICS

The technological characteristics are the same in the proposed and predicate devices.

F. TESTING

The computed radiography system with NX1.0 workstation has been tested for proper performance to specifications through various in-house reliability and imaging performance demonstration tests. The device also meets the requirements of EN 60601-1-1 and EN 60601-1-2.

G. CONCLUSIONS

This Special 510(k) for Device Modification submission has demonstrated Substantial Equivalence as defined and understood in the Federal Food Drug and Cosmetic Act and various guidance documents issued by the Center for Devices and Radiological Health.

DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

Food and Drug Administration
9200 Corporate Boulevard
Rockville MD 20850

JAN 17 2006

Mr. Jeffery A. Jedlicka
Senior Regulatory Affairs
and Compliance Manager
Agfa Corporation
Healthcare
10 South Academy Street
GREENVILLE SC 29601

Re: K053634
Trade/Device Name: Computed Radiography System with NX1.0
Regulation Number: 21 CFR 892.1630
Regulation Name: Electrostatic x-ray imaging system
Regulation Number: 21 CFR 892.1650
Regulation Name: Image-intensified fluoroscopic x-ray system
Regulatory Class: II
Product Code: MQB and LLZ
Dated: December 20, 2005
Received: December 29, 2005

Dear Mr. Jedlicka:

We have reviewed your Section 510(k) premarket notification of intent to market the device referenced above and have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to legally marketed predicate devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act) that do not require approval of a premarket approval application (PMA). You may, therefore, market the device, subject to the general controls provisions of the Act. The general controls provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 898. In addition, FDA may publish further announcements concerning your device in the Federal Register.

Please be advised that FDA's issuance of a substantial equivalence determination does not mean that FDA has made a determination that your device complies with other requirements of the Act or any Federal statutes and regulations administered by other Federal agencies. You must comply with all the Act's requirements, including, but not limited to registration and listing (21 CFR Part 807); labeling (21 CFR Part 801); good manufacturing practice requirements as set forth in the quality systems (QS) regulation (21 CFR Part 820); and if applicable, the electronic product radiation control provisions (Sections 531-542 of the Act); 21 CFR 1000-1050.

This letter will allow you to begin marketing your device as described in your Section 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801), please contact the Office of Compliance at one of the following numbers, based on the regulation number at the top of this letter:

21 CFR 876.xxxx	(Gastroenterology/Renal/Urology)	240-276-0115
21 CFR 884.xxxx	(Obstetrics/Gynecology)	240-276-0115
21 CFR 892.xxxx	(Radiology)	240-276-0120
Other		240-276-0100

Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). You may obtain other general information on your responsibilities under the Act from the Division of Small Manufacturers, International and Consumer Assistance at its toll-free number (800) 638-2041 or (301) 443-6597 or at its Internet address http://www.fda.gov/cdrh/industry/support/index.html.

Sincerely yours,

Nancy C. Brogdon

Nancy C. Brogdon
Director, Division of Reproductive,
Abdominal, and Radiological Devices
Office of Device Evaluation
Center for Devices and Radiological Health

Enclosure

Indications for Use

510(k) Number (if known): K053634

Device Name: **Computed Radiography System with NX1.0 Workstation**

Indications for Use:

Agfa's Computed Radiography Systems with NX1.0 workstations are indicated to provide diagnostic quality images to aid the physician with diagnosis.

Prescription Use __X__ AND/~~OR~~ Over-The-Counter Use _____
(Part 21 CFR 801 Subpart D) (21 CFR 801 Subpart C)

(PLEASE DO NOT WRITE BELOW THIS LINE-CONTINUE ON ANOTHER PAGE OF NEEDED)

Concurrence of CDRH, Office of Device Evaluation (ODE)

David A. Feigal

(Division Sign-Off)
Division of Reproductive, Abdominal, and Radiological Devices
510(k) Number K053634